HP Digital Projector xb31/sb21

Designed for the business professional who needs to project a high-quality image with ease.

Quality image

- **For the highest-quality image.** The HP Digital Projector xb31 provides industry-leading brightness and the highest resolution for impressive presentations, in a micro-portable weight that is still light enough to carry easily from room to room.
- **Industry-leading brightness in any setting.** Even with the room lights on, your audience will see your presentation with optimal clarity—the HP Digital Projector xb31 features 1500 lumens.
- **Sharp, clear, accurate.** Your presentation will look as good projected as it does on your computer screen with a TI DLP™ light engine, True XGA resolution (1024 x 768 dpi with the xb31 model) and high contrast ratio.

Mobile

- **Lighter than most laptops.** At just over two pounds, the HP Digital Projector sb21 is designed for the mobile professional—it lets you present a high-quality image in a compact design that won't weigh you down.
- **You don't give up brightness.** This micro-portable projector that fits into a purse or briefcase pouch also projects a bright, sharp, clear image with 1000 lumens, True SVGA resolution (800 x 600 dpi with the sb21 model) and a high contrast ratio.
- **Perfect partners.** An HP digital projector combined with an HP notebook computer help you stay productive, mobile and successful, and they both feature HP reliability and compatibility for worry-free performance.

Easy-to-use

- **Easily adapts to any venue.** Both HP digital projector models are equipped with built-in, full-screen NTSC/PAL/SECAM video capability, and compatibility with S-video, composite, component and HDTV terminals plus SXGA (xb31 model only), XGA, SVGA, VGA and Mac from one MD-I input terminal.
- **Simple presentation setup.** Equipped with automatic image synchronization for easy tracking, frequency and position adjustment.
- **Simple device setup.** These HP digital projectors automatically detect computer signal input and resize images to a full screen, giving users the flexibility they need to switch sources quickly and easily for any presentation.
- **Flexibility.** A wireless remote control with USB mouse function and a laser pointer give you the freedom to move about the room and engage your audience.

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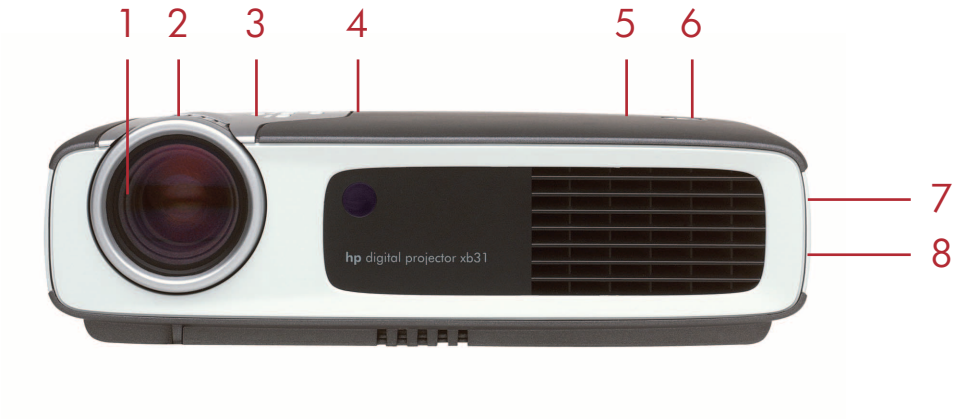
HP Digital Projector xb31/sb21

HP Digital Projector xb31

1. Projection zoom lens
2. Optical zoom
3. Six command keys and 3 LED indicators
4. NTSC/PAL/SECAM video through S-video, composite, component or HDTV (up to 1080i connections)
5. SXGA, XGA, SVGA, VGA and Mac compatibility with one MD-I terminal
6. 3.5 mm phone jack for audio input
7. Built-in 2-watt speaker
8. High-efficiency cooling system with low acoustic noise level



HP Digital Projector xb31

HP Digital Projector sb21

1. High-efficiency cooling system with low acoustic noise level
2. Digital zoom
3. Projection fixed lens
4. Six command keys and 3 LED indicators
5. XGA, SVGA, VGA and Mac compatibility with one MD-I terminal
6. Built-in full screen NTSC/PAL/SECAM video through S-video, composite, component or HDTV connections

HP Digital Projector sb21

HP Digital Projector xb31: Unbelievable brightness, unbelievable contrast ratio

- TI DLP™ light engine for the brightest, highest-contrast image possible
- 1500 market lumens/1,200 lumens for a bright picture with the room lights on
- 1800:1 JBMA[1]/400:1 ANSI[2] contrast ratio for deep blacks and rich, full colors
- True XGA (1024 x 768 dpi) for optimal clarity
- No surprises imaging™
- 8.9 x 7.2 x 2.6 inches
- 3.5 pounds

[1] Japan Business Machine Makers Association
[2] American National Standard Institute

HP Digital Projector sb21: Unbelievable size, unbelievable weight

- Fits in a pocketbook or with a laptop in your briefcase
- TI DLP™ light engine for the brightest, highest-contrast image possible
- 1000 market lumens/800 lumens
- True SVGA (800 x 600 dpi) resolution
- 7.9 x 5.5 x 2.3 inches
- 2.2 pounds

Superb imaging quality—what you see on your laptop is what you see projected on the screen!

If your presentation looks good, you look good.
Whether pitching a new product, describing a design's progress, providing training or presenting financial results, you only have one opportunity to engage and convince your audience.

HP digital projectors are perfect for mobile professionals—presenting in a variety of rooms onsite or around the world—who demand a projector that will deliver polished and professional presentations with a high-quality image. These lightweight, easy-to-use projectors provide uncompromising image brightness, contrast and resolution, assuring that you and your presentation get results.

HP helps you fulfill the high standards that the fast-paced, competitive marketplace has established. Photographs project clearly with accurate colors, CAD drawings and plans are projected with high resolution—even the most detailed spreadsheets are easy to read—and your presentation can include both digital and analog input. Plus with the HP digital projectors' quiet performance and ability to project vivid images even with the room lights on, you can stay engaged with your audience, lead support exercises and get your messages across without raising your voice.

Complete mobile solutions from a trusted partner
Customers around the world count on HP to provide business-critical support that gets results and contributes to business success. The HP digital projector complements the HP product portfolio, including the entire HP Omnibook notebook PC line, HP Jornada handheld PCs, HP's portable Deskjet printer and business desktop PCs.

For easy compatibility, HP Digital Projectors work with any notebook—PC or Macintosh—but you will benefit from optimized performance when you use it as part of an HP mobile solution. When combined with the HP Omnibook 500 or 6000 notebook PC, the "presentation ready" mode hot key automatically adjusts power management and disables screen savers while locking in the signal to the projector. One button is all it takes to make your HP Omnibook talk seamlessly to your projector.

And with HP digital projectors you are assured the highest image quality with "no hassles" reliability. HP has developed the industry standard for high-resolution printed images and scanning technology and now you can count on those same high-quality images "printed to the screen." Plus, with HP's reputation for reliability and the digital projectors' two-year expedited repair warranties, you can focus on your presentation and let HP take care of the rest.

The freedom to connect with your audience
Industry-leading contrast ratio, bright imaging and accurate colors capture and keep the attention of your audience and project the best image of you and your presentation:

- 1800:1 JBMA[1]/400:1 ANSI[2] contrast ratio provides high definition and clear details.
- DLP™ light processor allows maximum brightness in a small, lightweight size.
- Image is bright enough to be effective even in rooms with the lights on.
- HP digital projector technology provides great color matching.
- Quiet 35 dBA noise level allows you to hear questions and comments and to be heard without raising your voice.
- Full-functionality remote control allows you to control your presentation while staying engaged with your audience.

The lightweight, small size and versatile connections allow you to pack, go and present whenever and wherever you need to:

- Choose from the micro-portable xb31 at 3.5 pounds or the sb21 at 2.2 pounds.
- Connect to any input source—S-video, composite, component and HDTV terminals, and one MD-I terminal for SXGA/XGA/SVGA/VGA/Mac compatibility (SXGA in xb31 only).

1 Japan Business Machine Makers Association
2 American National Standard Institute

HP Digital Projector xb31/sb21

Technical specifications	HP Digital Projector xb31 (Product number: L1511A)	HP Digital Projector sb21 (Product number: L1510A)
Brightness	1500 market lumens/1200 lumens	1000 market lumens/800 lumens
Resolution	True XGA (1024 x 768), interpreted SXGA (1280 x 1024) resolution; 16.7 million colors	True SVGA (800 x 600), interpreted XGA (1024 x 768) resolution; 16.7 million colors
Image contrast	1800:1 JBMA (Japan Business Makers Association) 400:1 ANSI (American National Standards Institute)	
Lamp life	20+ months usage typical (1,500 hours to 50% lumens output)	
Projected image size	Adjustable from 28 to 295.3 inches (diagonal)	Adjustable from 25 to 300 inches (diagonal)
Throw distance	3.7 to 39.4 feet	3.3 to 39.4 feet
Display technology	Single-panel 0.7 in 12° DDR DMD XGA (TI DLP™)	Single-panel 0.55 in 12° DDR DMD SVGA (TI DLP™)
Image compression/Scaling technology	Intelligent zoom, XGA compression	
Projector lens	f/2.44~2.69, f=28.8~34.5 mm; 1.2x manual zoom lens (optical zoom; manual focus)	f/2.4, f=21.9 mm fixed focal lens (digital zoom; manual focus)
Keystone correction	±16° (32° total)	
Noise level	32 dBA peak under 25° C, 35 dBA typical under 25° C, 39 dBA maximum under 40° C	
Video capability	NTSC: M (3.58 MHz), 4.43 MHz; PAL: B, D, G, H, I, M, N; SECAM: B, D, G, K, K1, L; HDTV: 480i, 480p, 720p, 1080i	
Lamp type	150-watt compact P-VIP lamp (user replaceable)	120-watt compact P-VIP lamp (user replaceable)
Audio	Built-in two-watt speaker	N/A
Video composite input	RCA jack	2.5 mm phone jack
Resizing of images to full screen	Automatic (1024 x 768 full screen)	Automatic (800 x 600 full screen)
Detection of computer signal input	Automatic	
Image synchronization	Automatic	
Remote control	Wireless remote control with USB mouse function and laser pointer	
Mounting capability	Ceiling	
Dimensions (l x w x h)	8.92 x 7.23 x 2.67 inches	7.9 x 5.55 x 2.3 inches
Weight (approximate)	3.5 lb	2.2 lb
What's in the box	HP Digital Projector xb31, standard accessories: VESA M1-A to D-sub and USB cable (1.8 m), 4-pin S-video to 4-pin S-video cable (1.8 m), RCA jack to RCA composite-video cable (1.8 m), 3.5 mm phone jack to 2.5 mm phone jack audio cable, wireless remote control with USB mouse function and laser pointer, two batteries, tethered lens cap, carrying bag, multi-language User's Guide (CD-ROM), multi-language Quick Start Card, support information data sheet	HP Digital Projector sb21, standard accessories: AC power cord (1.8 m), VESA M1-A to D-sub and USB cable (1.8 m), USB mini-B 5-pin to 4-pin S-video cable (1.8 m), 2.5 mm phone jack to RCA composite-video cable, wireless remote control with USB mouse function and laser pointer, two batteries, tethered lens cap, carrying bag, multi-language User's Guide (CD-ROM), multi-language Quick Start Card, support information data sheet

Onscreen languages	435, ABG, AB2, ABU, 401, ABJ, ABA, 436, ABZ, ABY, 420
Environmental ranges	
Operating temperatures:	50 to 104° F (10 to 40° C)
Storage temperatures:	4 to 140° F (-20 to 60° C)
Power requirements	
Input voltage:	Universal AC 100-240V, 50/60 Hz with PFC input
Power consumption	
Maximum:	xb31: 220 watts, sb21: 160 watts
Power certification	
Safety certifications:	FCC Part 15, Class B; CE-Class B; VCC Class B; BSMI; UL; CUL; TüV-GS
Electromagnetic compatibility:	FCC Part 15, Class B; CE-Class B; VCC Class B; BSMI; UL; CUL; TüV-GS
Warranty	Standard warranty: two-year parts and labor, two-year expedited repair or express exchange, two-year phone support; lamp module—90 days/500 hours; accessories—90 days, HP web support, HP e-mail support

Ordering information

Product number	HP product
L1511A	HP Digital Projector xb31
L1510A	HP Digital Projector sb21
Optional accessories	
L1513A	Ceiling mount connector
L1515A	Lamp module for sb21 model
L1516A	Lamp module for xb31 model
L1523A	USB to M1-A cable
L1528A	International AC power cords (1.8 m)
L1529A	M1-D to DV-1 USB cable (1.8 m)

HP recommends Microsoft® Windows® XP Professional for mobile computing.

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